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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,069	10/30/2003	Prasenjit Sarkar	ARC 9-2003-0075US1	9724	
05/12/2009 JOSEPH C. REDMOND, JR 43464 FOXGROVE COURT			EXAM	EXAMINER	
			CHANG, JULIAN		
ASHBURN, VA 20147			ART UNIT	PAPER NUMBER	
			2452		
			MAIL DATE	DELIVERY MODE	
			05/12/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/698.069 SARKAR ET AL. Office Action Summary Examiner Art Unit JULIAN CHANG 2452 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 7 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

1. This Office action is responsive to communication filed on 02/02/09. Claim 7 is

pending, and has been examined below.

2. In view of the Appeal Brief filed on 02/02/09, PROSECUTION IS HEREBY

REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply

under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed

by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth

in 37 CFR 41.20 have been increased since they were previously paid, then appellant

must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by

/John Follansbee/

signing below:

Supervisory Patent Examiner, Art Unit 2451.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat.
No. 6,675,200 ("Cheriton"), and further in view of U.S. Pub. No. 2001/0025315 ("Jolitz"), and U.S. Pat. No. 6,570,884 ("Connery").

Cheriton teaches a method comprising:

detecting an application packet header using a packet classifier within a network adapter ('TCP option..."RDMA option", Col. 3, lines 39-67);

identifying offsets included within the application header ('RID 220', Col. 4, lines 7-16);

initiating direct data placement of data associated with the application packet header ('RID 220 is an application-level identifier that the receiving system can use to associate or map the transfer to an application buffer', Col. 4, lines 7-16), and wherein initiating direct data placement comprises:

extracting information corresponding to the detected application header (RID 220 must be extracted to determine where to map the payload. Buffer Offset must also be extracted to determine where in the application buffer to place the payload. Col. 4, lines 7-44); and

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mapping a payload of the detected application header to a memory based on the direct data placement pattern ('map the transfer to an application buffer', Col. 4, lines 7-16; 'the receive buffer is actually in the receiving application's address space', Col. 4, lines 37-44).

Cheriton fails to teach loading a plurality of registers with the identified offsets; and initiating a data placement when the comparison of the registers matches placement patterns. Jolitz teaches loading a plurality of registers with the identified offsets ('may be held in an ADE register', para. [0077]); and comparing placement patterns with contents of the registers ('comparing of session fields of the packet...', para. [0077]). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to load header fields into registers for comparison with expected values as taught by Jolitz in order to determine proper routing of the packets.

Cheriton-Jolitz fails to teach performing the comparison by masking the header offsets stored in the registers with a direct data placement pattern. Connery teaches pattern matching engines capable of masking a pattern with header fields stored in registers (Col. 7, lines 35-51). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to mask a pattern with header fields stored in registers in order to specify which bytes in each packet should be examined for a match.

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Response to Arguments

Applicant's arguments with respect to claim 7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to JULIAN CHANG whose telephone number is (571)272-8631. The examiner can normally be reached on Monday thru Friday 9AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. C./ Examiner, Art Unit 2452

/Kenny S Lin/ Primary Examiner, Art Unit 2452